

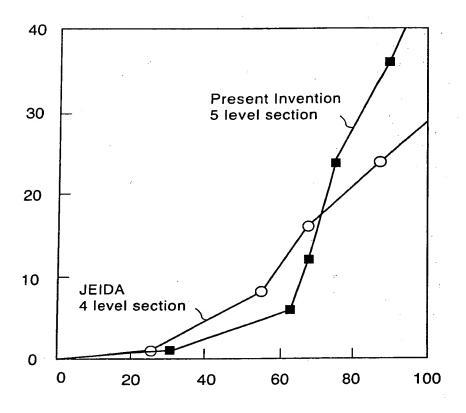
FIG.1

		I	n R	tep	No. 09/ ly to: I ement	Noti	ce F	l Re D	rw	gs	of	08/	05/0	5				
		Evaluation	point	13	36	76	47	30	0 9	74	18	30	•					
Λ		Measured	value	125	08	40/	0.0	0.07	0.07	Z-0.5	>10	>0.3			<0.5	!		
N		Evaluation		α	24	16	2/4	13	71	07	12	20						
	- 1	Measured	value	<35	08 ₹	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10 V	10.0 50.5	0.0	=0.0 E.0.5	 10 	≥0.3			≥0.5			
		Evaluation	point	4	12	œ	12	2 9	\$ =	<u>-</u>	9	10						
Ħ			value	≥30	570	≥0.2	<0>>	50.5 50.2	202	J.∨	<u>≤</u> 1.0	≦0.1			≥1.0			
	Evaluation Measured Evaluation	Evaluation	point	2	9	4	9	60	7		3	5						
	Maserrad	INCASOI GO	value	≦25	≥65	≥0.05	≤0.05	≤0.05	<0.05		≦0.1	≤0.03			≥1.5			
	Fvaluation		point	_	_	-	_	-	_	-	_	_						
_	Measured	or loss	value	≦20	09₹	≤0.02	≤0.02	≤0.02	≥0.02		≥0.0≥	≦0.01			>2.0			
ent	_	/		⋖	В	C1	C2	ဌ	2	r,	3				Ω			
c environm	Environmental factors		(0)	re(´C)	umidity	SO ₃ SO ₂ C1	H ₂ S	NO2	ច		ELN SL	Sea sait	particle	(mdd)	Distance	from	coast	(km)
Atmospheric environment Zone	Environme	Environmer		lemperature(°C)	Relative humidity (%RH)	Corrosive	gas	(mdd)				Sea salt	particle					

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Humidity (%RH)

FIG.3

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Inventor: KANEHIRA, ET AL.
Social No. 202784 (201

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JEIDA-29-1990 Dividing into four stage classes

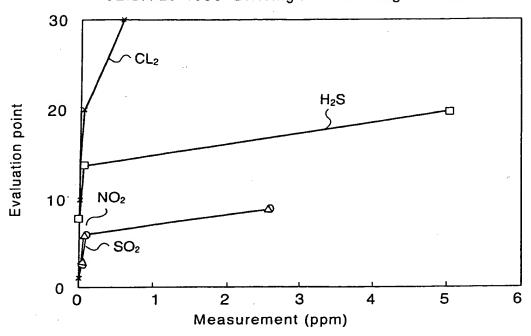


FIG.4A

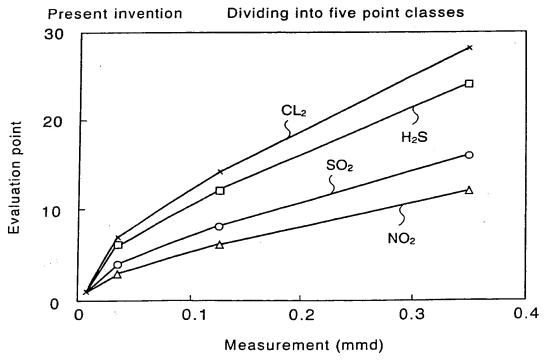
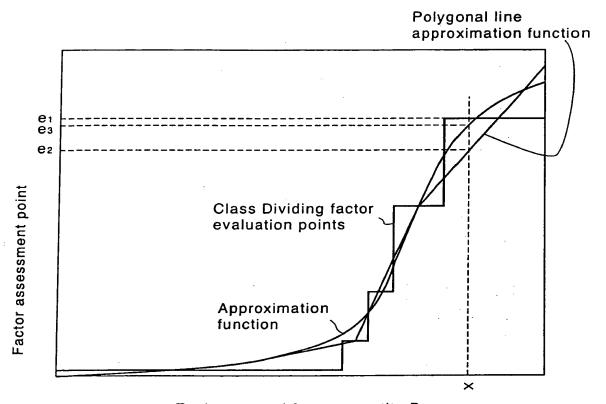


FIG.4B

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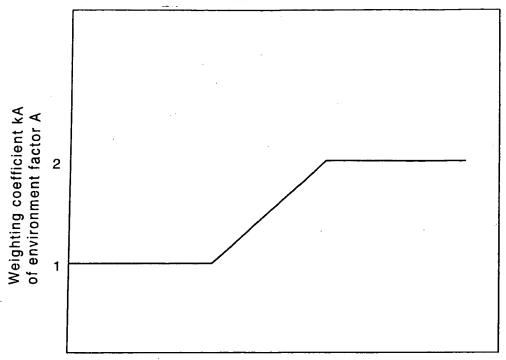


Environmental factor quantity B

FIG.5

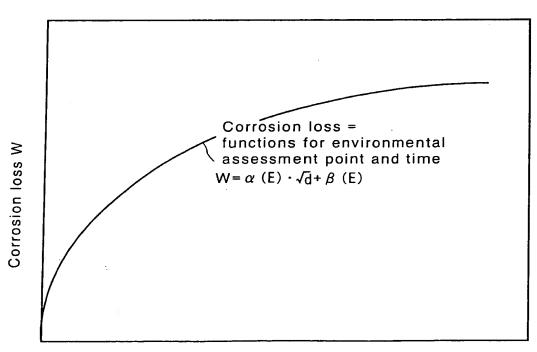
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Quantity X of environmental factor B

FIG.6



Time d

FIG.7

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Replacement Sheet

Maximum function value of corrosion loss of metallic material prediction function represented by function for environmental assessment points and time

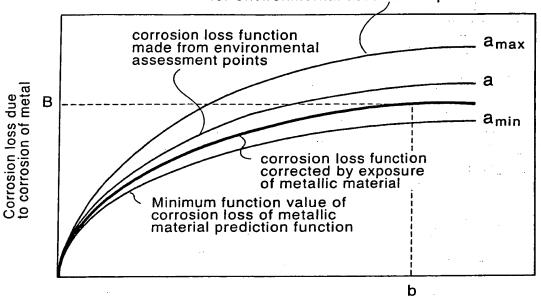


FIG.8

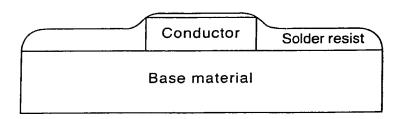
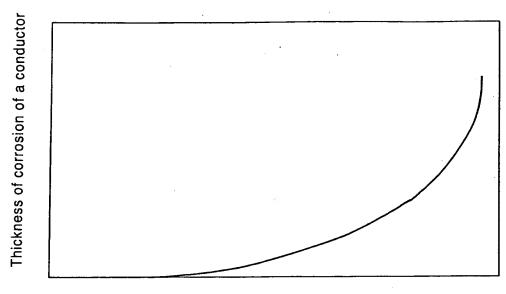


FIG.9

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Amount of corroded copper

FIG.10A

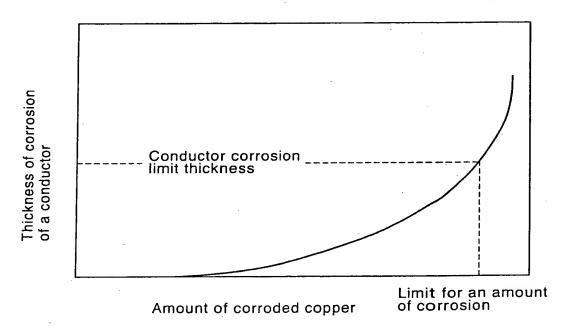
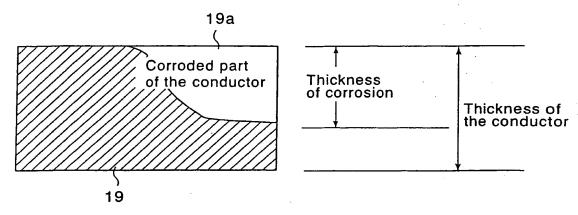


FIG.10B

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Corrosion loss rate=(thickness of corrosion/thickness of the conductor) × 100

FIG.11

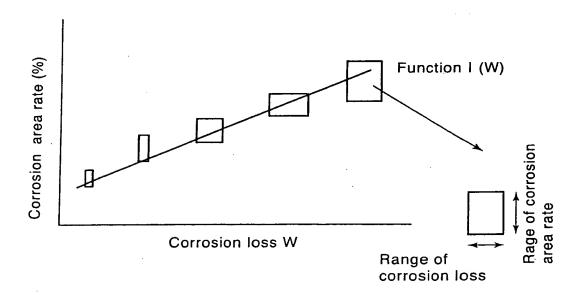


FIG.12

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Manufacturer Sealing resin Chip protective film Other Correlation function(MA)	11(W)	12(VV)	I ₃ (W)			
Other						
Chip protective film	PSG	None	Nis			
Sealing resin	Epoxy blend	Epoxy blend	Epoxy blend			
Manufacturer	T Inc.	N Inc.	T Inc.			
Year	IC1 1982	IC2 1979	IC3 1992			
IC type Year	5	102	<u>ಬ</u>			

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Replacement Sheet

Change of time sequence of aluminium wiring corrosion area rate Ui = hi(t) Correlation function F(u) of aluminium wiring corrosion area rate and faults	U ₁ =m ₁ (t),F ₁ =n ₁ (u)	$U_2=m_2(t),F_2=n_2(u)$	U ₃ =m ₃ (t),F ₃ =n ₃ (u)
Other			
Chip protective Other film	PSG	None	SiN
Sealing resin	Epoxy blend	Epoxy blend	polyimide blend
Year Manufacturer	T Inc.	N Inc.	H Inc.
Year	IC1 1982	1979	IC3 1992
IC type	<u>0</u>	IC2 1979	<u>C3</u>

FIG. 14

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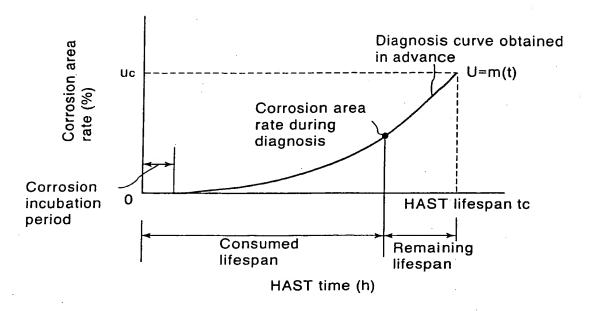
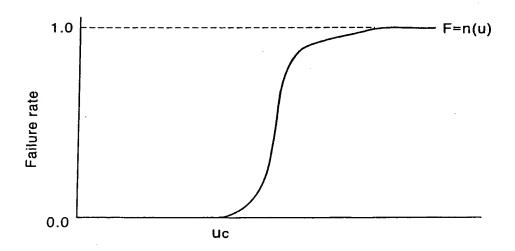


FIG.15



Corrosion area average rate (%)

FIG.16

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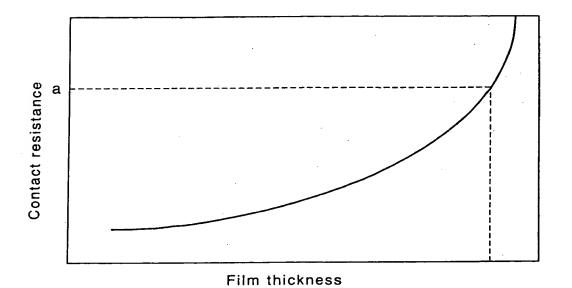


FIG.17

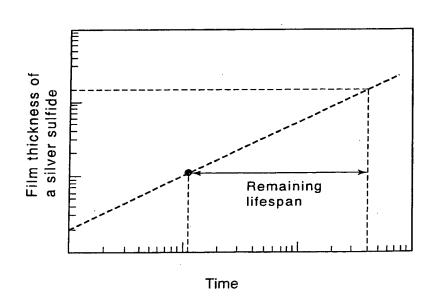


FIG.18

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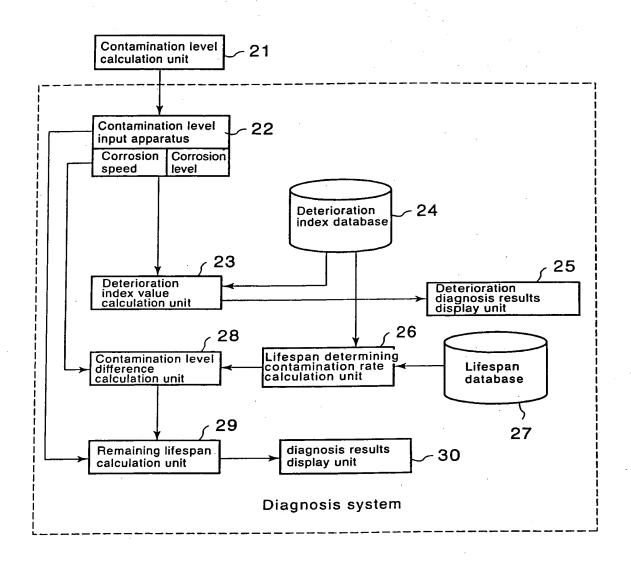


FIG.19

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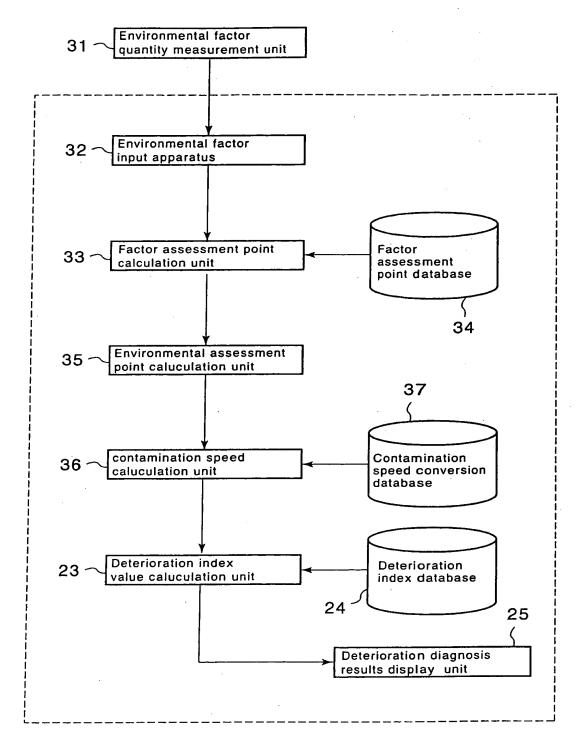


FIG.20

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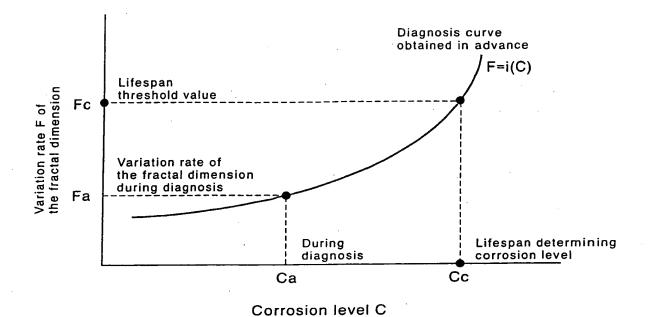
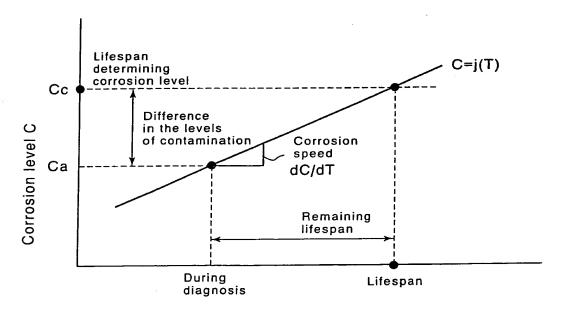


FIG.21



Time of usage T

FIG.22

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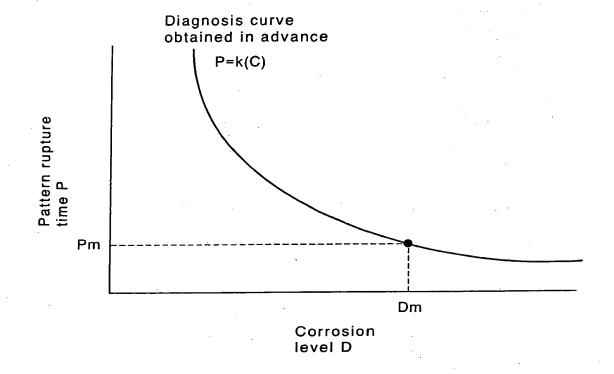


FIG.23

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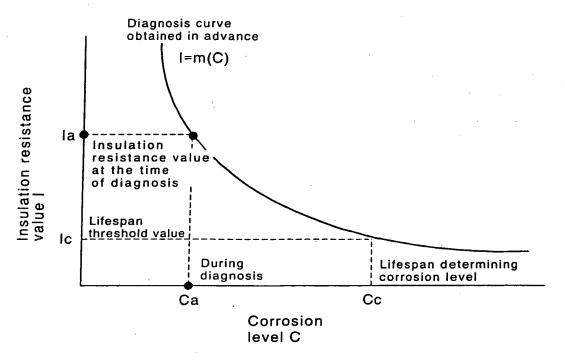
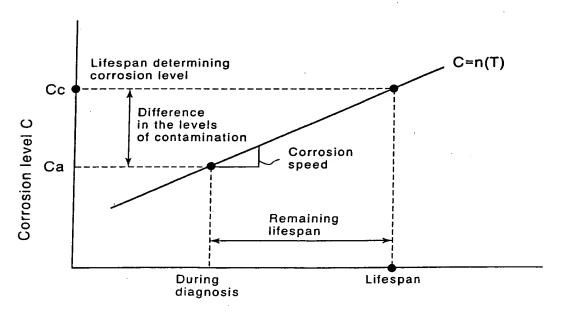


FIG.24



Time of usage T

FIG.25